

Applicant: Andrew J. White
For: HERMETICALLY SEALED PRESSURE-BALANCED
ACCUMULATOR

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ABSTRACT OF DISCLOSURE

A hermetically sealed pressure-balanced accumulator includes a housing and a moveable divider mechanism for separating the housing into at least an accumulator chamber at a pre-selected accumulator pressure. A first balancing chamber is responsive to changes in ambient pressure for adjusting said pre-selected accumulator pressure with respect to ambient pressure. A second balancing chamber is responsive to the first balancing chamber, and the first and second balancing chambers maintain a predetermined pressure differential between the pre-selected accumulator pressure and ambient pressure. The hermetically sealed pressure-balanced accumulator further includes a hermetic sealing device for sealing the first balancing chamber from at least one of the accumulator chamber and the second balancing chamber.